



## **QUALIFIED GUARD RAIL FABRICATORS BRAND REGISTRATION AND GUARANTEE ON FILE FIELD SECTION 1040 TABLE 1**

**BUFFALO SPECIALTY PRODUCTS, INC. - BUFFALO, NEW YORK.** Brand Registration relates to guard rail beams marked in the following manner:

BSP Identification Code M-180 Class Type

The markings will appear on each beam element on the center corrugation of the traffic face, and will consist of 1/4 in. [6 mm] high letters embossed into the metal forming the rail element. Identification Code is a 2 letter marking code which refers to a specific heat number lot on file with the Buffalo Specialty Products, Inc. The Date and Shift of galvanizing will be in yellow waterproof ink on the back of the rail in the valley. This document also relates to back-up plates, end sections, buffer ends, end shoes, and hardware. Markings for these items will be on durable tags to each bundle (or on labels affixed to at least one section in each bundle). Bolts and nuts for Types 1, 2, and 3 beams are certified as manufactured to comply to the requirements of ASTM A307 and galvanized to comply to the requirements of AASHTO M232. Bolts and nuts for Type 4 beams will be corrosion resistant steel and conform to the requirements of ASTM A307.

**CENTRAL FABRICATORS, INC., KOSCIUSKI, MISSISSIPPI.** Brand Registration relates to guard rail beams marked in the following manner:(9/4/01)

(Brand) CF M-180, Heat Number, Class Type, Coating, Production Week, Production Year

The markings will appear in the approximate center on each beam element on the center hump on the back side. The markings are embossed in 7/8" high letters into each piece of guardrail.. Heat number is 6 to 10 digits, alphanumeric; Class type is A or B; Coating is Type 1 or Type 2; Production week (one or two digits) and Production Year as two digits. This document also relates to sheet beams, back-up plates, end sections, buffer ends, end shoes, and hardware. Markings for these items will be on durable tags to each bundle (or on labels affixed to at least one section in each bundle). Bolts, nuts, and washers are certified as manufactured to comply to the requirements of ASTM A307 and galvanized to comply to the requirements of ASTM A153.

**CONTECH CONSTRUCTION PRODUCTS, INC. - MIDDLETOWN, OHIO.** Brand Registration relates to guardrail beams marked in the following manner:

CONTECH Flex-Beam Identification Code M-180 Class Type (W-BEAM SHAPE)

C Flex-Beam Identification Code M-180 Class Type (THRIE BEAM SHAPE)

The markings will appear on each beam element on the center corrugation and on the side opposite the traffic face. The markings will consist of 1/4 in. [6 mm] high letters embossed into metal forming the rail element. Identification Code will appear on the beams as a heat number and stock card number. This document also relates to back-up plates, end sections, buffer ends, and end shoes. Markings for these items will be on durable tags attached to each bundle (or on labels affixed to at least one section in each bundle). All splice bolts and post bolts furnished in conjunction with guardrail beam are certified as manufactured to comply to the requirements of ASTM A307 and galvanized to comply to the requirements of ASTM A153.

**GREGORY HIGHWAY PRODUCTS, INC. - CANTON, OHIO.** Brand Registration relates to guardrail beams marked in the following manner:

GH M-180, Class-Type, Heat Number, Coating Lot


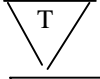
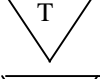


The markings will appear every 2' 0" [600 mm] on each beam element on the center corrugation. The markings will consist of 1/2" [12 mm] high letters embossed into the metal forming the rail element. This document also relates to back-up plates, end sections, buffer ends and end shoes. Markings for these items will be on durable tags attached to each bundle (or on labels affixed to at least one section in each bundle). All bolts and nuts furnished in conjunction with guardrail beam are certified as manufactured to comply to the requirements of ASTM A307 and galvanized to comply to the requirements of ASTM A153. Washers will be galvanized to meet ASTM A-153.

**HIGHWAY SAFETY CORP. - GLASTONBURY, CT.** Brand Registration relates to guardrail beams marked in the following manner. The oval shown in the center of the marking represents the post bolt slot.

HS Date M-180 Class Type  Heat Number

The markings will appear every 6' - 3" [1905 mm] on each beam element on the center corrugation of the traffic face, centered around the post bolt slot, and will consist of 1/4 in. [6 mm] high letters embossed into the metal forming the rail element. This document also relates to back-up plates, end sections, buffer ends, end shoes, and hardware. Markings for these items will be on durable tags to each bundle (or on labels affixed to at least one section in each bundle). Bolts are certified as manufactured to comply to the requirements of ASTM A307 and galvanized to comply to the requirements of ASTM A153. Nuts are certified as manufactured to comply to the requirements of ASTM A563 and galvanized to comply to the requirements of ASTM A153.

**TRINITY INDUSTRIES, INC. - LIMA, OHIO.** Registration relates specifically to guardrail beams marked in the following manner. Markings for internal use in addition to those shown below may appear on the rail. The plant names shown to the left of the Logo are for information only, these names will not appear in the marking.

|                 |   |   |      |       |      |                     |
|-----------------|---|---|------|-------|------|---------------------|
| Fort Worth, TX  |  |   | M180 | Class | Type | Identification Code |
| Girard, Ohio    |  | S | M180 | Class | Type | Identification Code |
| Centerville, UT |  | U | M180 | Class | Type | Identification Code |
| Lima, Ohio      |  |   | M180 | Class | Type | Identification Code |
| Buffalo, NY     |  | B | M180 | Class | Type | Identification Code |

The markings will appear on each beam element on the center corrugation of the rail element. Identification Code is the Heat Number and Code Number which is traceable to the galvanizing date (i.e., 1548763386, where 154876 is the heat number and 3386 is the code number). Longitudinal location along the rail and front side/backside location will vary depending on plant. Brand Registration also applies to end sections, back-up plates, and guardrail accessories. Bolts, nuts, and washers are certified to meet or exceed specification requirements of AASHTO M180.